



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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Report No.: SZEM180400296003
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TEST REPORT

Application No.: SZEM1804002960CR
Applicant: Winners'Sun Plastic & Electronic (Shenzhen)Co., Ltd
Address of Applicant: Zone E, Ying Tai Industrial Park, Dalang, Longhua Town, Ban An District, Shenzhen, Guang Dong Province, China
Manufacturer: Winners'Sun Plastic & Electronic (Shenzhen)Co., Ltd
Address of Manufacturer: Zone E, Ying Tai Industrial Park, Dalang, Longhua Town, Ban An District, Shenzhen, Guang Dong Province, China
Factory: Winners'Sun Plastic & Electronic (Shenzhen)Co., Ltd
Address of Factory: Zone E, Ying Tai Industrial Park, Dalang, Longhua Town, Ban An District, Shenzhen, Guang Dong Province, China
Equipment Under Test (EUT):
EUT Name: Tripod Selfie Stick
Model No.: WS-SQB641, WS-SQB645B, WS-SQB650B, WS-18002, WS-17001, WS-17002 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: Dispho
Standard(s) : 47 CFR Part 15, Subpart C
Date of Receipt: 2018-04-18
Date of Test: 2018-05-11
Date of Issue: 2018-05-11

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-05-11		Original

Authorized for issue by:				
				
		<hr/>		
		Peter Geng /Project Engineer		
				
		<hr/>		
		Eric Fu /Reviewer		



2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C	ANSI C63.10:2013	Class B	Pass

Remark:

Model No.: WS-SQB641, WS-SQB645B, WS-SQB650B, WS-18002, WS-17001, WS-17002

Only the model WS-SQB641 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name and appearance.



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4 General Information

4.1 Details of E.U.T.

Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V3.0
Modulation Type:	GFSK
Number of Channels:	79
Sample Type:	Portable production
Antenna Type:	Built-in antenna
Antenna Gain:	2.3dBi
Power supply:	Rechargeable battery:DC 3.7V 0.24Wh(Charge by USB)

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (Below 1GHz)
		4.8dB (Above 1GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07

6 Emission Test Results

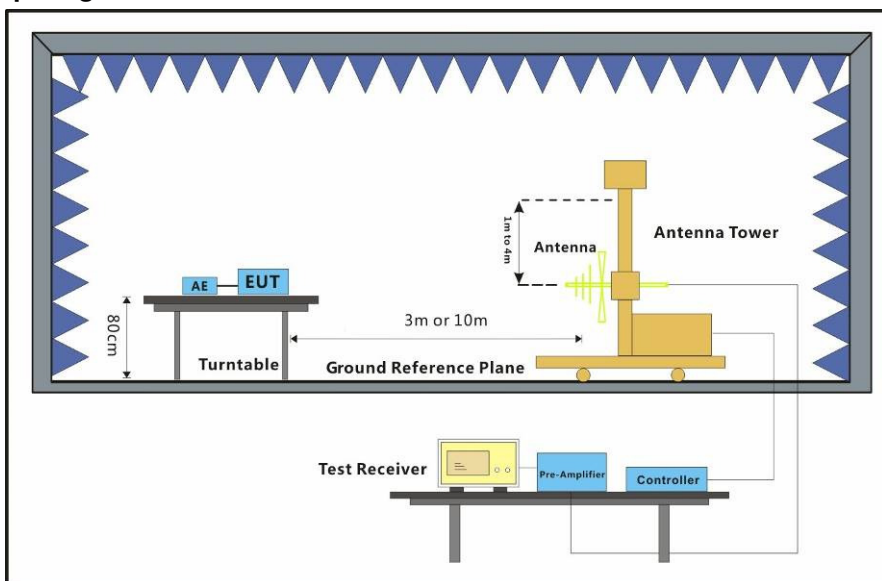
6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart C
Test Method:	ANSI C63.10:2013
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dB μ V/m) quasi-peak
88MHz-216MHz	43.5(dB μ V/m) quasi-peak
216MHz-960MHz	46.0(dB μ V/m) quasi-peak
960MHz-1000MHz	54.0(dB μ V/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.1.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.6 °C	Humidity:	54 % RH
		Atmospheric Pressure:	1020 mbar
Test mode	a:Charge+Tx		

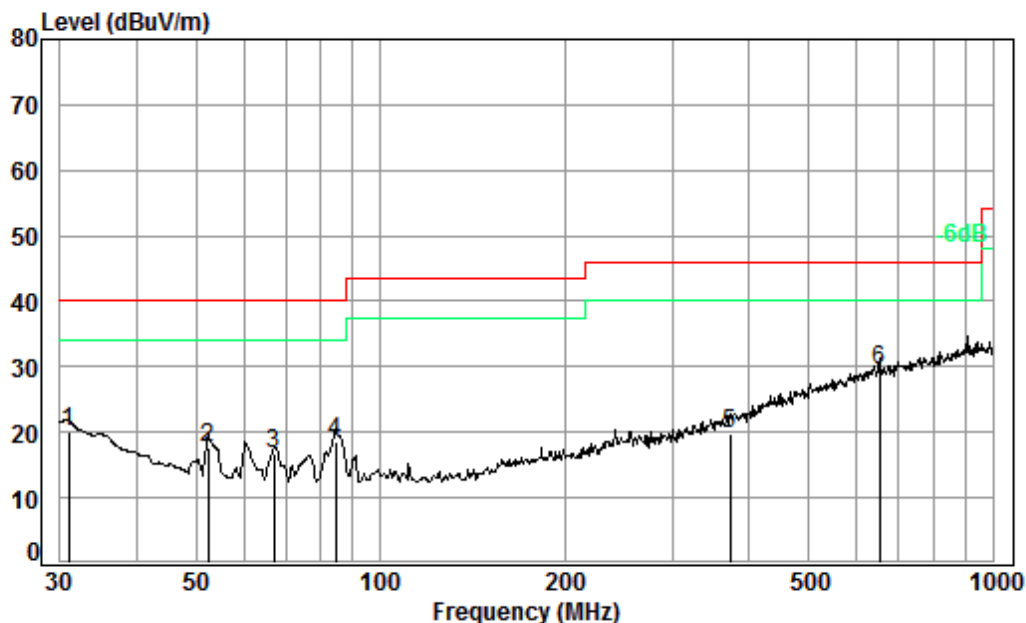
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:a; Polarization:Horizontal



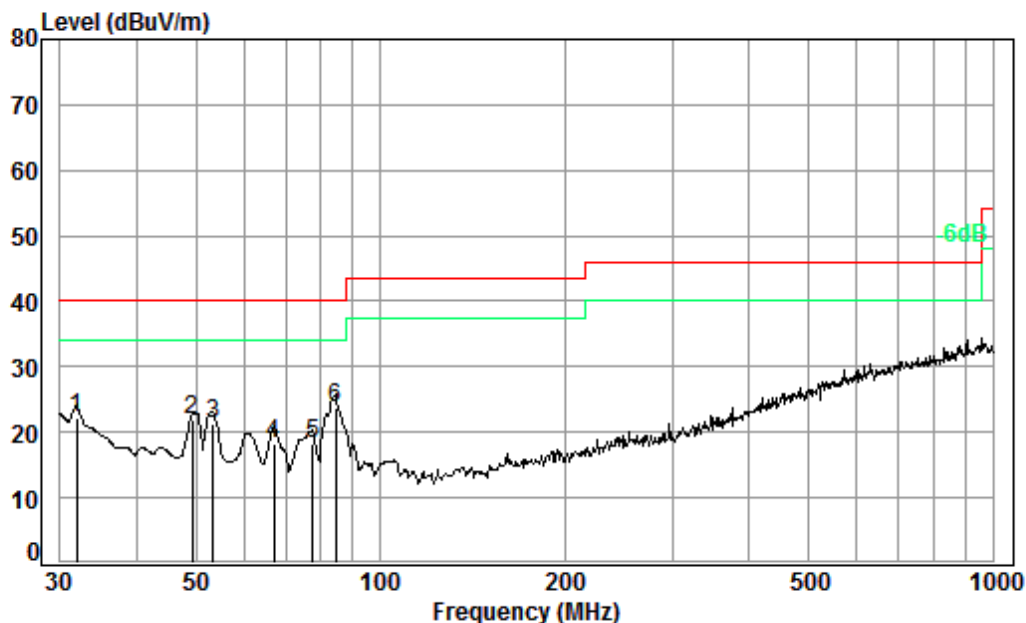
Condition: 3m HORIZONTAL

Job No. : 02960CR

Test mode: a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.67	25.19	20.07	40.00	-19.93
2	52.39	0.80	13.94	27.59	30.56	17.71	40.00	-22.29
3	66.97	0.80	12.91	27.54	30.61	16.78	40.00	-23.22
4	84.41	1.10	12.50	27.50	32.50	18.60	40.00	-21.40
5	372.00	2.12	21.69	27.68	23.77	19.90	46.00	-26.10
6 pp	651.94	2.81	27.30	27.62	26.91	29.40	46.00	-16.60

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

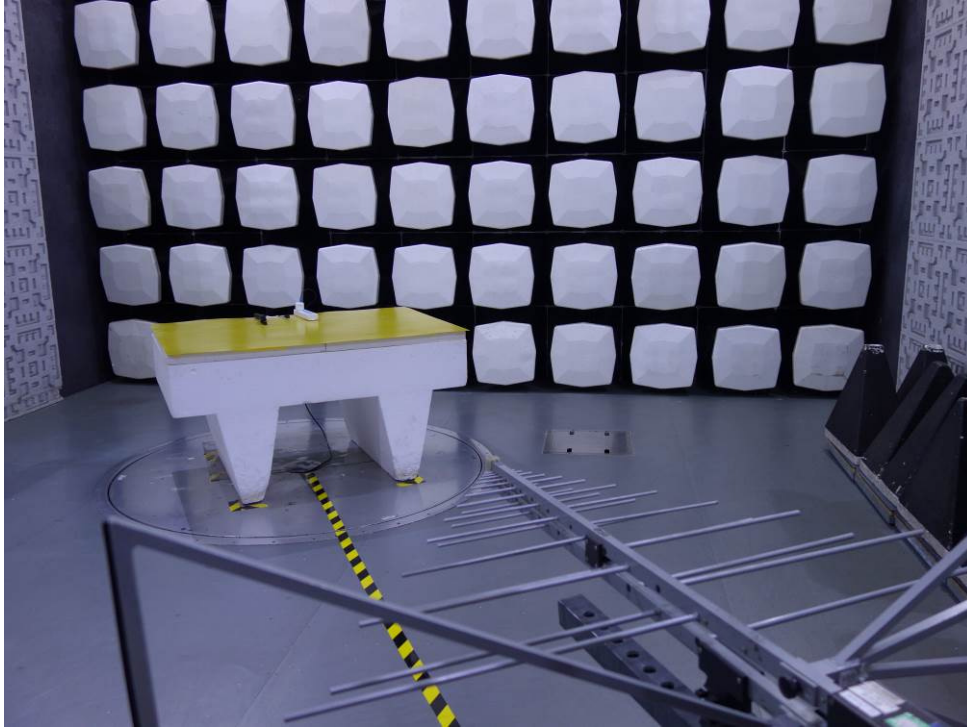
Job No. : 02960CR

Test mode: a

	Freq	Cable	Ant	Preamp	Read		Limit	Over
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.66	27.85	22.19	40.00	-17.81
2	49.36	0.79	14.39	27.60	34.35	21.93	40.00	-18.07
3	53.32	0.80	13.85	27.59	34.11	21.17	40.00	-18.83
4	66.97	0.80	12.91	27.54	31.96	18.13	40.00	-21.87
5	77.59	1.03	12.18	27.51	32.57	18.27	40.00	-21.73
6 pp	84.41	1.10	12.50	27.50	37.74	23.84	40.00	-16.16

7 Photographs

7.1 Radiated Emissions (30MHz-1GHz) Test Setup



- End of the Report -